

67. The isolated nucleic acid molecule of claim 66 comprising a nucleic acid encoding a polypeptide having at least 85% sequence identity with amino acid residues 27 to 374 of the native sequence murine GFR $\alpha$ 3 polypeptide of Figures 1A-B (SEQ ID NO: 5).

68. The isolated nucleic acid molecule of claim 67 comprising a nucleic acid encoding a polypeptide having at least 90% sequence identity with amino acid residues 27 to 374 of the native sequence murine GFR $\alpha$ 3 polypeptide of Figures 1A-B (SEQ ID NO: 5).

69. The isolated nucleic acid molecule of claim 68 comprising a nucleic acid encoding a polypeptide having at least 95% sequence identity with amino acid residues 27 to 374 of the native sequence murine GFR $\alpha$ 3 polypeptide of Figures 1A-B (SEQ ID NO: 5).

68  
cont.  
70. An isolated nucleic acid molecule comprising a nucleic acid encoding amino acid residues 27 to 374 of the native sequence murine GFR $\alpha$ 3 polypeptide of Figures 1A-B (SEQ ID NO: 5).

71. An isolated nucleic acid molecule encoding the native sequence murine GFR $\alpha$ 3 polypeptide of Figures 1A-B (SEQ ID NO: 5).

72. An isolated nucleic acid molecule comprising a nucleic acid encoding the polypeptide of SEQ ID NO: 17.

73. The isolated nucleic acid molecule of claim 72 encoding the polypeptide of SEQ ID NO: 17.

74. A vector comprising the nucleic acid of claim 66.

75. A vector comprising the nucleic acid of claim 70.

76. A vector comprising the nucleic acid of claim 71.

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77. A vector comprising the nucleic acid of claim 72.

78. An isolated host cell comprising the vector of claim 74.

79. An isolated host cell comprising the vector of claim 75.

80. An isolated host cell comprising the vector of claim 76.

81. An isolated host cell comprising the vector of claim 77.

82. A process for producing a GFR $\alpha$ 3 polypeptide comprising culturing the host cell of claim 78 under conditions suitable for expression of said polypeptide and recovering said polypeptide from the cell culture.

83. A process for producing a GFR $\alpha$ 3 polypeptide comprising culturing the host cell of claim 79 under conditions suitable for expression of said polypeptide and recovering said polypeptide from the cell culture.

84. A process for producing a GFR $\alpha$ 3 polypeptide comprising culturing the host cell of claim 80 under conditions suitable for expression of said polypeptide and recovering said polypeptide from the cell culture.

85. A process for producing a GFR $\alpha$ 3 polypeptide comprising culturing the host cell of claim 81 under conditions suitable for expression of said polypeptide and recovering said polypeptide from the cell culture. --